

## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

1. (Amended) A method for managing resources for an active computing environment comprising:  
  
encapsulating said active computing environment into a compute capsule, the compute capsule comprising a plurality of processes and their associated system environment;  
  
promoting said ~~active computing environment~~ compute capsule to a first class object status;  
  
~~performing a resource management operation on~~ assigning system resources to said first class object, thereby collectively assigning said system resources to said plurality of processes.
2. (Amended) The method of claim 1 wherein said ~~resource management operation comprises~~ system resources comprise a guaranteed share of resources.
3. (Amended) The method of claim 1 wherein said ~~resource management operation~~ assigning comprises applying a resource management algorithm.
4. (Amended) The method of claim 1 wherein said ~~resource management operation~~ assigning comprises ~~a restriction of~~ restricting said first-class object from accessing a network access on said first class object.
5. (Amended) The method of claim 1 wherein said ~~resource management operation~~ assigning comprises restricting said first class object from accessing ~~restriction of access to a local file system on said first class object.~~

6. (Amended) The method of claim 1 wherein said ~~resource management operation assigning~~ comprises [[a]] allowing user-level control over allocation of the system resources among the plurality of processes in the compute capsule.

7. (Canceled)

8. (Amended) A ~~resource manager~~ system for managing computer resources, the system comprising:

a compute capsule, the compute capsule comprising a plurality of processes and their associated system environment;

~~an active computing environment;~~

a first class object configured to be obtained by promoting said ~~active computing environment~~ compute capsule to first class object status; and

a resource manager configured to ~~perform an operation on~~ assign system resources to said first class object.

9. (Amended) The ~~resource manager~~ system of claim 8 wherein said resource manager assigns a guaranteed share of resources to said first class object.

10. (Amended) The ~~resource manager~~ system of claim 8 wherein said resource manager applies a resource management algorithm to said first class object.

11. (Amended) The ~~resource manager~~ system of claim 8 wherein said resource manager ~~imposes a restriction of~~ restricts network access [[on]] by said first class object.

12. (Amended) The ~~resource-manager~~ system of claim 8 wherein said resource manager ~~imposes a restriction of~~ restricts access to a local file system ~~[[on]]~~ by said first class object.

13. The ~~resource-manager~~ system of claim 8, said system allowing wherein said resource-manager has a user-level controller control over allocation of the system resources among the plurality of processes in the compute capsule.

14. (Canceled)

15. (Amended) A computer program product comprising:  
a computer usable medium having computer readable program code embodied therein configured to manage resources with respect to an active computing environment, said computer program product comprising:

computer readable code configured to cause a computer to encapsulate said active computing environment into a compute capsule comprising a plurality of processes and their associated system environment;

computer readable code configured to cause ~~[[a]]~~ the computer to promote said ~~active computing environment~~ compute capsule to a first class object status;

computer readable code configured to cause ~~[[a]]~~ the computer to ~~perform a resource management operation on~~ assign system resources to said first class object, thereby collectively assigning said system resources to said plurality of processes.

16. (Amended) The computer program product of claim 15 wherein said ~~computer readable code configured to cause a computer to perform a resource management operation comprises~~ system resources comprise a guaranteed share of resources.

17. (Amended) The computer program product of claim 15 wherein said computer readable code configured to cause ~~[[a]]~~ the computer to ~~perform a resource~~

management operation assign system resources comprises computer readable code configured to cause the computer to apply a resource management algorithm.

18. (Amended) The computer program product of claim 15 wherein said computer readable code configured to cause [[a]] the computer to ~~perform a resource management operation assign system resources~~ comprises computer readable code configured to cause the computer to a restriction of restrict network access [[on]] by said first class object.

19. (Amended) The computer program product of claim 15 wherein said computer readable code configured to cause [[a]] the computer to ~~perform a resource management operation assign system resources~~ comprises computer readable code configured to a restriction of restrict access to a local file system [[on]] by said first class object.

20. (Amended) The computer program product of claim 15 wherein said computer readable code configured to cause [[a]] the computer to ~~perform a resource management operation assign system resources~~ comprises computer readable code configured to allow [[a]] user-level control over allocation of the system resources among the plurality of processes in the compute capsule.

21. (Canceled)